

#744

ESRO-4

72-092A-02A

GASANALYZER DATA

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THIS DATASET CONSISTS OF ONE MAGNETIC TAPE. THE TAPE WAS CREATED ON THE IBM WITH A IBM STANDARD LABEL OF X00016, WHICH HAS BEEN REMOVED FROM THE ORIGINAL AND COPY TAPE. THE TAPE IS 9-TRACK, 6250 BPI,BINARY, WITH 1 DATA FILE. THE "D" NUMBER AS WELL AS THE "C" NUMBER CAN BE FOUND BELOW.

D#	C#	FILES	TIMESPAN
D- <u>107551</u>	C- <u>031299</u>	<u>1</u>	<u>12/04/72-04/14/74</u>

Revised 16-Jul-79

Esro 4 Gasanalyzer Data

Introduction

The Esro 4 gas analyzer measured in-situ the number densities of N<sub>2</sub>, O, He, and Ar in the midlatitude thermosphere. These measurements yield information on the absolute values and variations of composition and total density in the upper atmosphere under the influence of the season, the latitude, the local time, the solar electromagnetic radiation, the geomagnetic activity, and acoustic gravity waves. The instrument was part of the scientific payload of the Esro 4 satellite, which was designed to investigate the neutral and ionised particle densities, the energy and pitch angle distribution of auroral particles and solar particles flux densities at the Earth's orbit.

The Esro 4 Mission

The Esro 4 satellite was launched on November 22, 1972 into a polar orbit. All on board instrumentation operated satisfactorily until re-entry on April 15, 1974. The injection perigee altitude was 245 km, which determines the lowest altitude of complete latitudinal coverage as 275 km. Vital for the good data acquisition of the gas analyzer was the attitude control capability of the satellite and the flawless performance of the on board tape recorder. A more detailed description of the satellite and its scientific payload is given in Esro Scientific Note no. 114 by Tunaley and Jaeschke (1972).

The Gas Analyzer

The gas analyzer employed a truly spherical antechamber to thermalize the ambient gas before it entered an electron impact ion source. A monopole mass spectrometer analyzed the masses of these ions, and a triple detector system provided signals with sufficient redundancy to monitor the inflight stability of various components of the spectrometer. The

masses 1 amu to 44 amu were scanned by a 15 step mass programmer resulting in ion mass spectra of 9 seconds duration. The signals associated with the ion masses 4, 28, 32 and 40 amu have been converted into ambient number densities of helium, nitrogen, total oxygen, and argon and are written onto the data tape described below. A detailed description of the physical layout of the instrument, its functioning, the calibration procedure and the in orbit operational requirements has been given by H. Trinks and U. von Zahn, The Esro 4 Gas Analyzer, Rev. Sci. Instrum., Vol. 46, p. 215 to 217 (1975).

#### Data Tape Description

The data tape generated by the Physikalische Institut, Universität Bonn, at the Regionales Hochschulrechenzentrum in Bonn has the following format and contents:

a) Physical description

- 1) tape produced on an IBM 370/168, Fortran G1, unformatted write
- 2) standard label of IBM, only one data set
- 3) VOLUME-SERIAL NUMBER = // / / /      *this tape*      VOL=SER = X000/16
- 4) Data set name                                = ESRO4.GA. EXCHANGE
- 5) Number of tracks                                = 9
- 6) Density    = 1600 bpi
- 7) RECFM    = VBS (*Virt. Block Spac.*)
- 8) LRECL    = 56
- 9) BLKSIZE    = 16804
- 10) there are 723 003 logical records in the data set

b) Contents of one logical record

WORD	WORD type	Description	Units
(1)	Integer *4	day number	days since 1950
(2)	Integer *4	time of day	milliseconds (UT)
(3)	Real *4	altitude	km
(4)	Real *4	geographic latitude	degrees
(5)	Real *4	geographic longitude	degrees
(6)	Real *4	local solar time	hours
(7)	Real *4	shell parameter	earth radii
(8)	Real *4	invariant latitude	degrees
(9)	Real *4	magnetic local time	hours
(10)	Real *4	number density N <sub>2</sub>	cm <sup>-3</sup>
(11)	Real *4	number density O + 2O <sub>2</sub>	cm <sup>-3</sup>
(12)	Real *4	number density Ar	cm <sup>-3</sup>
(13)	Real *4	number density He	cm <sup>-3</sup>

c) Explanatory remarks

Each logical record corresponds to one mass spectrum. If only part of the spectrum passed the reduction process, the missing number densities are set at +1.

Day Number (word 1)

Day number counts the number of days since Jan. 1, 1950. On December 1, 1972 the day count was 8370 and on April 15, 1974, it was 8870.

Time of day (word 2)

Time of day is given in milliseconds universal time (Greenwich Meridian Time). It refers to the sampling time of argon within each spectrum. It is also the time for the positional information. Relative time differences are for the other gases in the spectrum:

mass current	28	32	40	4	
gas (ambient)	N <sub>2</sub>	total O	Ar	He	
time difference	-1.8	-1.2	±0	+2.4	seconds
approximate horizontal distance	-14.4	-9.6	±0	+19.2	km

Altitude (word 3)

Altitude is given in km and refers to the approximate geoid (ellipsoid) surface  $r_{\text{equator}} - (r_{\text{equator}} - r_{\text{pole}}) \sin^2(\text{latitude})$

Geographic latitude (word 4)

Geographic latitude is given in degrees. The North Pole is at  $+90^\circ$ , the equator at 0 and the South Pole at  $-90^\circ$ .

Geographic longitude (word 5)

Geographic longitude is given in degrees. Zero meridian is Greenwich, and the positive direction towards the East. (London  $\approx 0$ , Moscow  $\approx 38$ , Tokyo  $\approx 140$ , New York  $\approx 286$ ).

Local solar time (word 6)

Local solar time is given in hours from midnight.

Shell parameter (word 7)

The shell parameter is given in units of earth radii. It was supplied on the ESOC telemetry data tape, and probably calculated from the algorithms published by G. Kluge and K.G. Lenhart in Computer Physics Communication, Volumes 3 and 4 (1972).

Invariant latitude (word 8)

Invariant latitude  $\psi$  is given in degrees. It was calculated from the shell parameter L to be  $\psi = \text{arc cos } (1/\sqrt{L})$ . (There are problems near the equator, where L may be less than 1.)

Magnetic local time (word 9)

Magnetic local time is given in hours from midnight. It refers to eccentric dipole coordinates and is the difference of the eccentric magnetic longitudes of the satellite and the sun expressed in units of time.

Number densities (word 10 to 13)

Number densities are given in particles per cubic centimeter. The sensitivity threshold of the gas analyzer is approximately  $6 \times 10^3 \text{ cm}^{-3}$  for argon. Any number densities below this value are caused either by undetected telemetry errors or have been set at this value during data reduction.

The Reduction Process Applied to Data so far

Starting point for data reduction at the Physikalisches Institut, University of Bonn were the digital tapes of the satellite telemetry augmented with positional, attitude, and time information as supplied by the European Space Operations Centre (ESOC), Darmstadt. The data reduction process consisted of the following steps

- 1) Identification of the mass spectra within the continuous telemetry data stream
- 2) Time information for spectra (as opposed for telemetry)
- 3) Positional information for spectra
- 4) Quick check for obvious outlying telemetry data
- 5) Reconstruction of the electrometer characteristics from calibration pulses in telemetry
- 6) Conversion of electrometer telemetry signals into electrometer currents
- 7) Corrections of currents for changes in analyzer transmission and gain factor changes of multiplier through intercomparison of the triple detector system
- 8) Application of laboratory calibration to yield ion source densities
- 9) Application of attitude information to convert ion source densities to ambient densities.

No attempts have been made to correct these data for background currents, chemical reactions, adsorption, and desorption at the walls of the ion source. Instead limitations in altitude (<350 km) and angle of attack (<80°) were put on the data processed from the overall data collection. These limitations ensure that the necessary corrections will be minor for these data.

Data Selection Criteria for this tape

- (a) altitude less than 320 km, greater than 220 km (He up to 350 km)
- (b) range of electrometer current ratios for 14/28: 0.02-0.05; for 16/32 0.05-0.10
- (c) the spectra are sorted chronologically; doubly received spectra are removed
- (d) densities clearly outside the geophysical density range have been removed.

Peculiarities of the data set

Although the instrument was mounted in the spin axis of the satellite, spin modulation effects can be observed in the data from an apparent offset of approximately one degree. Frequency, amplitude, and phase vary over the mission as the spacecraft spin frequency decreases from ~1 Hz to 0.5 Hz. The observed modulation is on a beat frequency between the instrument repetition frequency (1/9 Hz) and the changing spin frequencies.

Intercomparison of the measured number densities with other mass spectrometers (Tranks et al., Intercomparison of neutral composition measurements from the satellites Esro 4, Aeros-A, Aeros-B, and Atmosphere Explorer-C, J. Geophys. Res., 82, 1261 (1977)) and with drag data indicates that the Esro 4 helium densities are low by a factor of 2 to 3. A correction factor of 2.5 has been applied to the Esro 4 model (von Zahn et al., Esro 4 model of global thermospheric composition and temperatures during times of low solar activity, Geophys. Res. Lett., 4, 33 1977) and the same factor has already been applied to the helium data on this tape.

Figure legends

- 1) Frequency distribution of data points in altitude.
- 2) Frequency distribution of data points in time period from 8370 (December 1, 1972) to 8869 (April 14, 1974).
- 3) Scatter plot of data points in altitude (vertical) and logarithm base 10 of number density (horizontal) for molecular nitrogen.
- 4) Same as 3 except for total oxygen.
- 5) Same as 3 except for argon.
- 6) Same as 3 except for helium.

1  
Eight

\* \* \* FNTRIES = 17300? \* \* \* ALL CHANNELS = 0.7232E+02 \* \* \* MPORTS = 0.2684E+00  
 \* \* \* BINS = 0.2600E+01 \* \* \* WMEAN = 0.7232E+02 \* \* \* CNT = 0.115E+02  
 \* \* \* DENS = 0.4024E+01 \* \* \* CNT = 0.115E+02 \* \* \* CNT = 0.115E+02

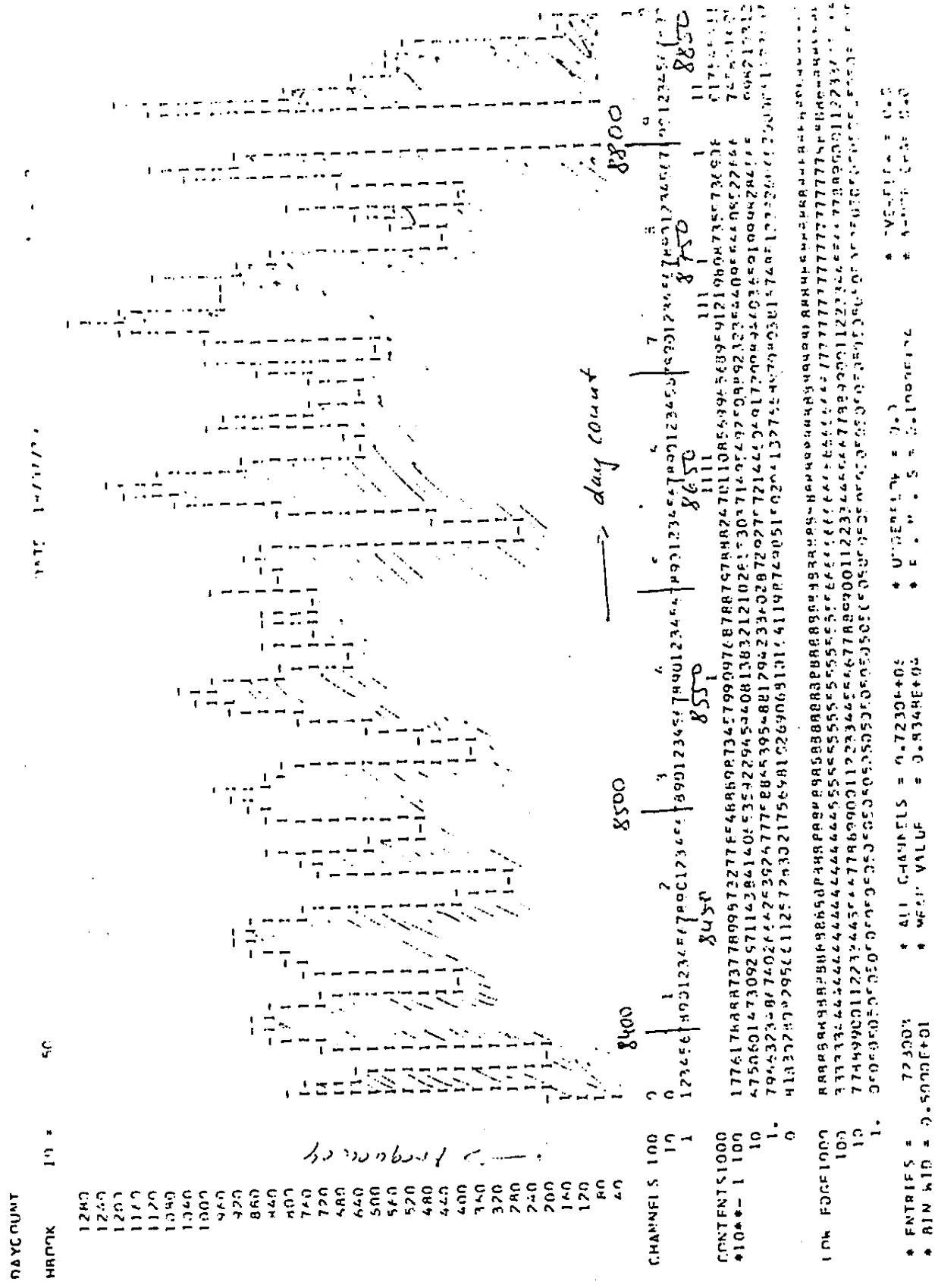
$\text{HANMF} > 100$	$\text{HANMF} \leq 100$
240	240
250	250
240	240
360	360
380	380

卷之三

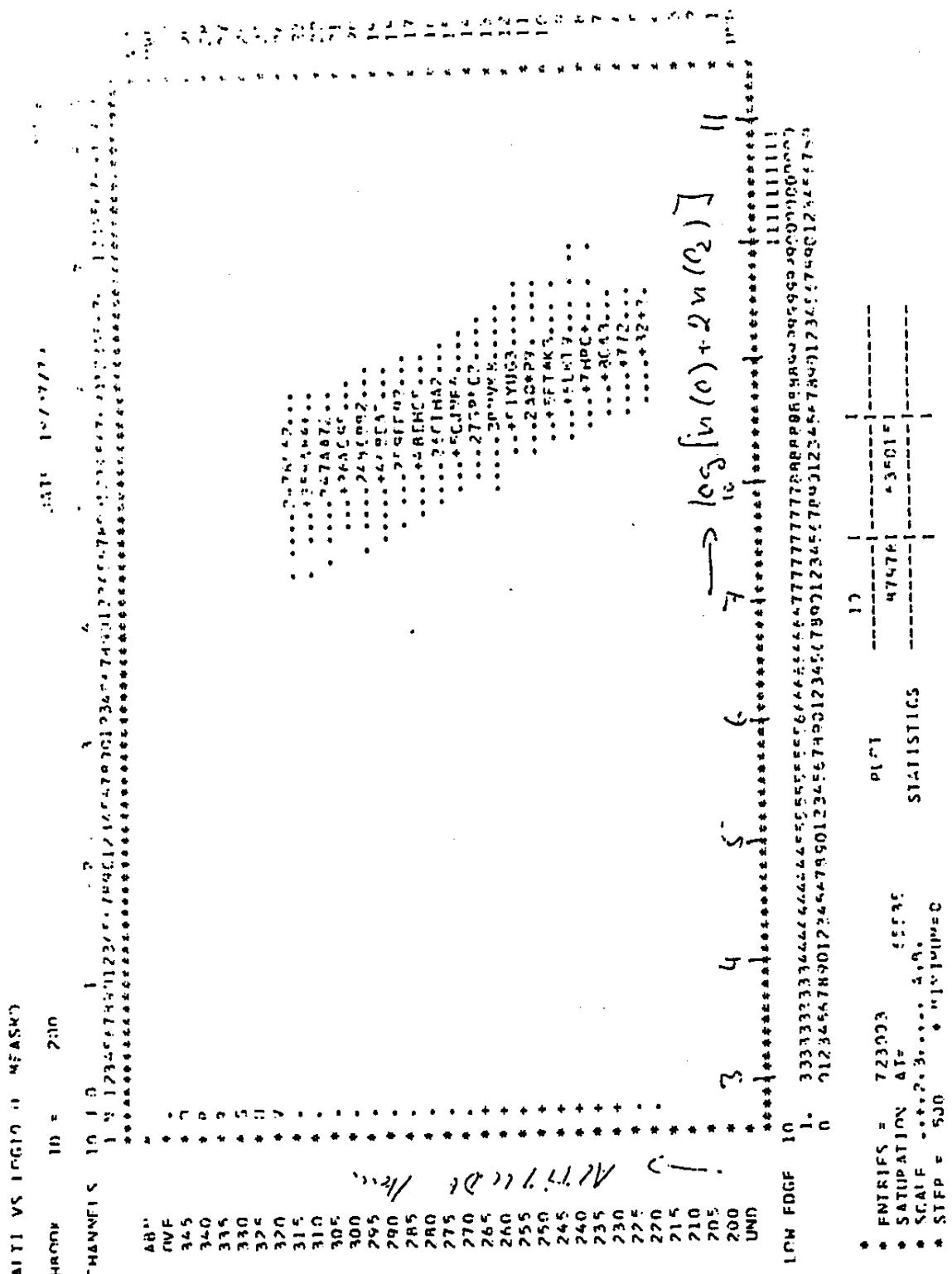
41 TITANIC

26

卷六

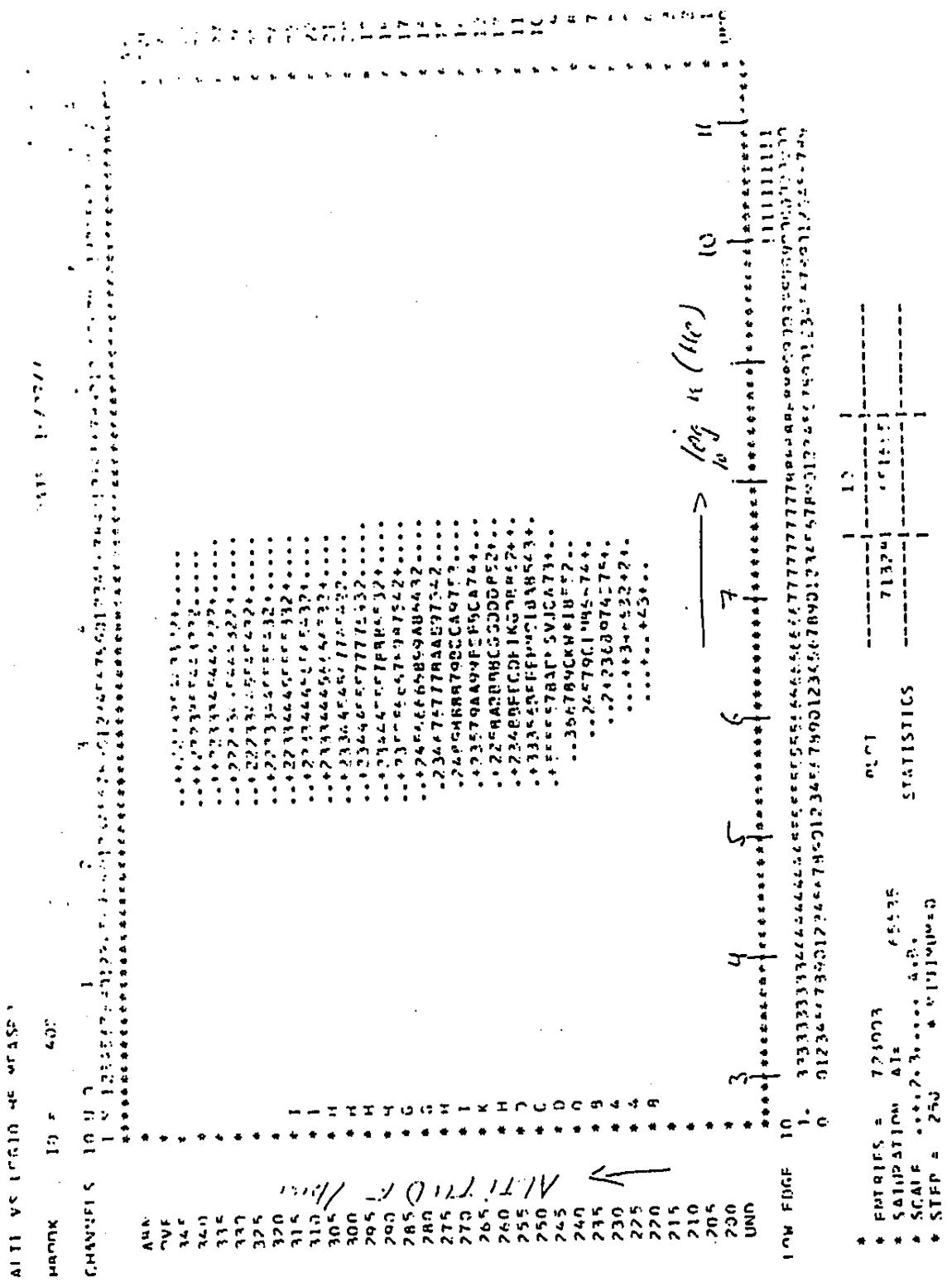






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//SOURCE.SYSIN DD \*  
IEF236I ALLCC. FCR ZBJEGGER SOURCE  
IEF237I 235 ALLOCATED TO SYSIN  
IEF237I 235 ALLOCATED TO SYSPRINT  
IEF237I 232 ALLOCATED TO SYSRUNC  
IEF237I 336 ALLOCATED TO SYSIN

00000030

FCRTTRAN IV G LEVEL 21 MAIN DATE = 20085 17/30/59  
 C COPIES GERMAN (ESRO4) DATA TO TAPE IN NEW FCFMFT 000000010  
 C DATE 3/80 PROGRAMMER: J. GASS 000000021  
 C COMMNCN /MAGIC2/F107M,F107C,F107S,APC,APP 000000030  
 C001 DIMENSION Y(13),X(16),H(4) 000000040  
 C002 EQUIVALENCE (Y(1),NO DAY),(Y(2),IUT),(X(1)-NIR),(X(3)-MASS) 000000050  
 C003 DATA M/28,16.40,4/ 000000060  
 C004 APC=0. 000000070  
 C005 F107S=J. 000000080  
 C006 F107M=0. 000000090  
 C007 DO 40, I=1,13 000000100  
 C008 Y(I)=0. 000000110  
 C009 40 CCNTINUE 000000120  
 C010 NDAY=0 000000130  
 C011 IUT=0 000000140  
 C012 NIR=0 000000150  
 C013 MASS=0 000000160  
 C014 X(10)=0. 000000170  
 C015 X(11)=23. 000000180  
 C016 X(12)=0. 000000190  
 C017 NIN=0 000000200  
 C018 NUM=0 000000210  
 C - OUTER LOOP READS INPUT RECORDS 000000220  
 C019 1 CCNTINUE 000000230  
 C020 CALL FREAD(Y, 10, 52, 6959, 6999) 000000240  
 C021 NIN=NIN+1 000000250  
 C022 NMOD=MOD(NIN, 4) 000000260  
 C023 IF (NMOD.NE.1) GO TO 1 000000270  
 C - CONVERT DATE 000000280  
 C024 IYR=(NODAY+1)/365 000000290  
 C025 IDAY=MOD(NODAY, 365) 000000300  
 C026 IDAY=IDAY-(IYR+1)/4 000000310  
 C027 IYR=IYR+50 000000320  
 C028 NYR=IYR\*1000+IDAY 000000330  
 C - CHANGE UT TO REAL & FILL OUTPUT ARRAY 000000340  
 C029 X(2)=FLOAT(IUT) 000000350  
 C030 X(6)=Y(3) 000000360  
 C031 X(7)=Y(4) 000000370  
 C032 X(8)=Y(5) 000000380  
 C033 X(9)=Y(6) 000000390  
 C034 X(13)=Y(8) 000000400  
 C035 CALL MAGT2(NYR, 0.) 000000410  
 C036 X(14)=APC 000000420  
 C037 X(15)=F107S 000000430  
 C038 X(16)=F107M 000000440  
 C - OUTPUT EACH CONSTITUENT AS NEW RECORD 000000450  
 C - 1-N2-2-TOTAL-0--3-AR--4-HE 000000460  
 C039 DO 20 I=1,4 000000470  
 C040 MASS=H(I) 000000480  
 C041 L=9+I 000000490  
 C042 X(4)=Y(L) 000000500  
 C043 X(5)=0.1\*Y(L) 000000510  
 C - SKIP IF DENSITY UNDER 100/CC 000000520  
 C044 IF (X(4).LT.100.) GO TO 11 000000530  
 C045 CALL FWRITE(X, 20, 64) 000000540  
 C046 NUM=NUM+1 000000550  
 C047 NSAMP=MOD(NUM, 5000) 000000560  
 C048 IF (NSAMP.NE.0) GO TO 11 000000570  
 C049 WRITE (6, 15) NYR, X(2), MASS, (X(K), K=4, 16) 000000580  
 C050 11. CONTINUE 000000590  
 C051 20 CCNTINUE 000000600  
 C052 GO TO 1 000000610  
 C053 30 CCNTINUE 000000620  
 C054 999 WRITE(6, 25) NIN, NUM 000000630  
 C055 15 FORMAT(1H0, 16.1X, F9.0, 1X, I3, 1X, E9.3, 1X, F4.0, 1X, F6.2, 000000640  
 IIX, F7.2, 1X, F5.2, 1X, F2.0, 1X, F1.6, 1X, F3.0, 1X, F6.2, 1X, F4.1, 1X, E9.2, 1X, 000000650  
 2, E9.2) 000000660  
 C056 25 FORMAT(1H0, 1+1.1B.1 RECORDS READ. -, 1E.!, WRITTEN. +!) 000000670  
 C057 STOP 000000680  
 C058 END



{	2200)	42FE7500	4237683D	421AB2A9	412ABE023	42344436	4210E676	47DFFABC	4843526E	44A51669
{	2240)	471E5073	00380000	000020B5	02F9DB06	421F657F	4236C8FE	421A9FA6	412970A3	42339571
{	2280)	4210E038	47FAE7DB	48441EEA	44C594A1	471F657F	00380000	000020B5	02F9F624	423629BF
{	2320)	421A8CE8	41FCCC68	41282BF5	4232DC98	4210DA22	4810D56F	45114522	42FD0D0	42380000
{	2360)	000020B5	02FA2156	42FC6600	4235BAC7	421A7A78	41FCC303	423231C5	471E8D3	00380000
{	2400)	484853C2	44FAF320	471D55D5	00380000	000020B5	02FA447E	4270A3D	4210D435	48119862
{	2440)	41263D70	4231B21C	4211C91D	4811C91D	4210DA00	42FB0D00	4234EB5A	421A845	41FCB9DC
{	2480)	42FB4300	42344BC8	421A564C	41FCB0F3	41251EB8	4512C059	471C5C5E	00380000	000020B5
{	2520)	00380000	000020B5	02FA8ACE	42FAC400	4233AC55	4230F6CC	4210C98F	02FA67A6	02FAD7A6
{	2560)	4210C338	48119408	44EB6914	41FC87E9	471BB799	00380000	000020B5	4210C98F	4230F6A1
{	2600)	421A3304	41FC9FDC	4123851E	4222FD7F9	421OBDD0	4813B92E	4844A274A	45165D12	42330CA7
{	2640)	000020B5	02FAD11E	42F9EC00	42326D1E	421A21B7	41FCF97AC	41228F5C	471F58	00380000
{	2680)	4844C7D50	451493A4	471F0603	00380000	000020B5	02FA446	422F1FBF	421OB889	48149B28
{	2720)	4121C28F	422E7E82	4210B361	48162646	484D879E	4230F6CC	4231CDBD	421A109B	41FC8FB2
{	2760)	42F94200	4231E15	4219FAE	41FC87E9	4120F5C2	422DD5A4	4210AE52	4844A377	484E886C
{	2800)	471C6F3B	00380000	000020B5	02FB3A96	42F8FD00	4230BE01	4219EEEE	4512F166	4512FFF
{	2840)	4210A95D	4813EF2A	484D5126	451743D1	47178F7A	00380000	000020B5	41FC804C	41200000
{	2880)	4219D63	41FC78EB	4811F483	471F0603	484D879E	4230F6CC	02FB5D8E	42F8C700	422FEF11
{	2920)	000020B5	02FB80E6	42FB89C00	4222C6A50	4219GDF51	4219CDF8	411E8F53	421A1706	00380000
{	2960)	484C4DE6	4513AE95	4718D229	00380000	000020B5	02FB440E	42F87D00	422EAFF4	481457195
{	3000)	411E3D70	422B54E9	4210B27	48158F91	484C297C	45174B19	471D46B1	00380000	000020B5
{	3040)	42F86D00	422E0FF4	4219AD99	41FC63AF	411D70A3	422A8175	42109696	484BD77C	451644B3
{	3080)	4717BF68	4813EF2A	484D5126	451743D1	47178F7A	00380000	000020B5	42FB5D8E	4229CF6F
{	3120)	42109221	4815FD76	484CEB15	451A53C4	4716858A	00380000	000020B5	422B64C	422CD081
{	3160)	42198DD8	41FC5656	411C28F5	422914CC	42108DBA	481734EA	484E1D55	4219BD8E	41FC6AA1
{	3200)	000020B5	02FC30AE	42F88300	422C310F	42197E2D	41FC4FE4	45174B14	00380000	000020B5
{	3240)	484DAC38	4519A486	471B26C7	00380000	000020B5	02FC53D6	42FB8A000	422B910D	42196E98
{	3280)	411B0A3D	4222B714	42108531	4817452C	484C60B2	451CABA4E	47171020	00380000	02FC76F
{	3320)	42FB89C00	422AF17B	4219F52E	41FC4352E	411A6666	4226E6A3	4226F10C	4817C6B	422CD86
{	3360)	47147A66	00380000	000020B5	02FC9A26	422914CC	42108DBA	481734EA	45198204	47166193
{	3400)	42107CF7	48185DFB	484BC496	451DCCCF	47122E88	00380000	000020B5	422882B4	4210896E
{	3440)	421940A1	41FC3751	41199999	4225C2DF	421078F4	4818C0CA	484B3B40	451FBC9B	481498A
{	3480)	000020B5	02FCE076	42199500	42291223	42193186	41FC3178	41191EB8	000020B5	02FC76F
{	3520)	484C04E4	451BB807	4713327C	00380000	000020B5	02FB805	42287D9E	42287241	451F7EF3
{	3560)	4118A3D7	42244F6A	42107121	481837A3	484B8160	451ADC96C	471B4C65	42194FD9	4119EB85
{	3600)	42FA6100	422D7D347	421913AC	41FC262A	411828F5	42238B3F	4210D554	4849AD64	451B95FC
{	3640)	4712F1E2	00380000	000020B5	02FD49EE	422AD500	422732D1	421904DB	411FC209F	4117AE14
{	3680)	4210698F	48185496	484944B6	451D7620	4714A2D9	00380000	000020B5	42FB5200	422B70B
{	3720)	4218F62B	41FC1B38	41175C28	422257A	421065DF	484B8054	484B80DA	452098A	48189520
{	3760)	000020B5	02FD903E	42FB8300	4225F342	4218E78A	41FC15E2	471B4C65	00380000	02FD26C6
{	3800)	4847202C	45193DB3	471056FB	00380000	000020B5	02FD3B66	422C383F	4849AD64	451B95FC
{	3840)	41168F5C	4220A1C7	42105EA3	48175985	48496312	45175D6E	46FEA710	4218D205	422B70B
{	3880)	42FD2400	4224B415	4218CABA	41FC0B7D	41166666	42204FC1	42105B18	4847DE28	4518F4D8
{	3920)	47107E3	00380000	000020B5	02FD9B6	42241459	484B80DA	45287D9E	42112A86	00380000
{	3960)	4210579C	4818143C	4846B9BA	451B9FA6	47108B0E	481837A3	4218E78A	42106237	48176E1
{	4000)	4218ADE1	41FC0171	41159999	421E9BDF	4210542D	48178E75	484508D6	4849AD64	4218D205
{	4040)	000020B5	02FE4006	42FF6A00	4222D49D	42189FA0	41FBFCB3	411547AE	421DE020	421050C6
{	4080)	4842D212	451A22B0	47105A76	00380000	000020B5	02FE632E	43100400	42223542	4816E1DE
{	4120)	4114F5C2	421D1BA7	42104D6F	48162DFD	484194B4	451716C2	46FFA3FC	000020B5	02FE8656
{	4160)	4310260	42219637	42188365	41F92ED	4214A3D7	48102150	421C4D9C	42104A24	42374DA
{	4200)	46F7131	00380000	000020B5	02FEA97E	43102150	4220F62B	451B4754	4218D205	40380000
{	4240)	421046E0	4814F176	484090A2	4513AAEB	471247EC	00380000	000020B5	4218D205	421050C6
{	4280)	42186764	41FBEB9A	41140000	421A90A9	421043A8	48145EA7	483D6764	4519EF96	42189178
{	4320)	000020B5	02FEFFCE	431041D0	42104D6F	484194B4	451716C2	46FFA3FC	00380000	02FE8656
{	4360)	45151C61	46454DF	48140944	48140944	48102150	421C4D9C	42104A24	4840CBAC	4516C8AD
{	4400)	42113AE4	42199F20	42103D57	48140944	48102150	4220F62B	451B4754	4218D205	40380000
{	4440)	431065A0	421E7828	42183DDC	41FBDC15	41135C28	42189FA0	4516B667	421F17FB	421B7502
{	4480)	41100000	00380000	000020B5	02FF5946	43107870	421DD933	42183012	4218D205	40380000
{	4520)	4210372B	48125BEE3	483ADD5E	4516A0AE	41100000	00380000	000020B5	02FF7C6E	42108C30
{	4560)	41FB0D361	42182260	4130A3D	42103420	4811EBE3	4511501B	41100000	00380000	48369CC8

{	4600)	02FF9F96	4310A060	421C9B1C	421814C0	41FBCE1B	4112B851	42166826	42103123
{	4640)	4514203A	4215CD2A	42110000	00380000	000020B5	02FFC2BE	421BF7B	4218072E
{	4680)	41128F5C	421B5C7C	42110000	00000000	00000000	4310B5A0	42100000	00380000
{	4720)	4310CB90	421B5C7C	42110000	00000000	00000000	42100000	00380000	00380000
{	4760)	41100000	00380000	00000000	00000000	00000000	42152BD6	42102B3A	47FED934
{	4800)	42102851	47F97405	482F7F0C	44FE616D	4310E250	421ABD4E	4217EC24	41FBCE299
{	4840)	4217DEB3	41FBBE85	4112147A	4213D3B2	41100000	00380000	000020B5	41123D70
{	4880)	000020B5	03004F5E	43111230	42197F2C	4210256F	47EB8963	4831036A	44F99C55
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